

**What is claimed is:**

1. A filter core controller device of a water filter device comprising:  
a chip in a filter core of the water filter device; the filter core having an erasable chip; codes and accumulating operation time period being recorded in  
5 the chip;  
a control unit for reading the cord in the chip so as to determining whether the filter core is a set one and reading the accumulating operation time period for determining whether the filter core is overdue and updating the accumulating operation time period in the chip.
- 10 2. The filter core controller device of a water filter device as claimed in claim 1, wherein the signals of the chip and the signals of the control device are transmitted wirelessly.
- 15 3. The filter core controller device of a water filter device as claimed in claim 1, wherein the signals of the chip and the signals of the control device are transmitted by signals wires.
- 20 4. The filter core controller device of a water filter device as claimed in claim 1, wherein a sensor card is installed at a joint connected to the chip; the sensor card has a second chip a coil antenna; a card reader is installed at the control unit; in operation, the card reader emits radio frequency wave signals to the sensor card; the sensor card receives the signals from the coil antenna; then power is induced by the radio frequency wave; then the second chip will resend a set of special codes to the card reader; thereby, the signals are communicated wirelessly.
- 25 5. A filter core controller device of a water filter device comprising:  
a control device for controlling operation of the water filter device;  
a display device for displaying an accumulating operation time period and a current operation time;  
a detecting device for detecting actuations and de-actuations of the water filter device;  
30 a filter core;  
a chip in the filter core for recording a password and an accumulating

operation time period of the filter core;

a timer for measuring a current operation time which is then transferred to the control device and the chip of the filter core to be added to the accumulating operation time period;

5 wherein when the filter core is installed in the water filter device; the control device will read the password in the chip for determining whether the filter core is a set one; if yes, the filter core is actuated, otherwise the filter core is stopped; if the filter core is a set one, then the control device determines whether the filter core is overdue from the accumulating operation time period  
10 read from the chip.

6. The filter core controller device of a water filter device as claimed in claim 5, wherein the signals of the chip and the signals of the control device are transmitted wirelessly.

7. The filter core controller device of a water filter device as claimed in claim 5, further comprising a joint for transferring signals of the chip to the control device by signal wires.

8. The filter core controller device of a water filter device as claimed in claim 7, wherein a sensor card is installed at a joint connected to the chip; the sensor card has a second chip a coil antenna; a card reader is installed at the control unit; in operation, the card reader emits radio frequency wave signals to the sensor card; the sensor card receives the signals from the coil antenna; then power is induced by the radio frequency wave; then the second chip will resend a set of special codes to the card reader; thereby, the signals are communicated wirelessly.